**Chapter 2 Quiz Answers**

1. **What is the function of a discrete output module?**

**a. To sequence logic steps**

**b. To indicate voltage spikes**

**c. To track device performance**

**d. To control current flow**

1. **Which of the following is the primary function of the I/O section?**

**a. Converting signals**

**b. Activating steps**

**c. Reporting problems**

**d. Managing logic**

1. **An object used to change the position of DIP switches should be \_\_\_\_\_\_\_\_.**

**a. soft**

**b. magnetic**

**c. nonconductive**

**d. sterile**

1. **E-Stop refers to which of the following?**

**a. Elevator stop**

**b. Emergency-stop**

**c. Energy stop**

**d. Extra stop**

1. **Which term describes a relay that handles current larger than the rating of an individual output terminal or circuit?**

**a. Binary**

**b. Interposing**

**c. Suppressing**

**d. TTL**

1. **Which factor is important to consider for potential access to and troubleshooting of a PLC?**

**a. Humidity**

**b. Dust**

**c. Location**

**d. Vibration**

1. **To ensure maximum benefit of shielding, the shield of a shielded cable must be terminated and grounded at both ends.**

**a. True**

**b. False**

1. **Triacs are susceptible to "dielectric-type" breakdown if the maximum peak voltage level is exceeded.**

**a. True**

**b. False**

1. **Optical isolation in an I/O device is focused on which of the following?**

**a. Bugs**

**b. Processing time**

**c. Voltage**

**d. Keying**

1. **A DIP switch is formally known as which of the following?**

**a. Dual interposed process**

**b. Dual-in-line package**

**c. Direct input process**

**d. Discrete integrated package**

1. **I/O modules are keyed to prevent unauthorized personnel from removing them from the I/O rack.**

**a. True**

**b. False**

1. **Solid-state output devices tend to \_\_\_\_\_\_\_\_.**

**a. never fail**

**b. fail in the open or OFF condition**

**c. fail in the shorted or ON condition**

**d. not be affected by overload**

1. **Which of the following is not normally a source of electrical noise?**

**a. Solenoid**

**b. Relay**

**c. Indicator lamp**

**d. Motor starter**

1. **NEMA standards recommend that emergency-stop functions should be \_\_\_\_\_\_\_\_.**

**a. set as an interposing relay**

**b. assigned to the LOGIC program**

**c. independent of the controller**

**d. limited to high-volume processes**

1. **Electromagnetic interference (EMI) can be reduced with the proper grounding of equipment.**

**a. True**

**b. False**